

**REMARKS**

Applicants have amended the claims in order to reduce the initial filing fee by deleting the multiple dependent claims from the application. Applicants have reintroduced subject matter canceled by the present Amendment by adding new claim 13 to the application. Also, an Abstract of the Disclosure has been added to the application.

Applicants are submitting herewith a copy of the Search Report which issued on International Application No. PCT/KR03/00879, of which the present application is the U.S. national phase. All of the publications cited in the International Search Report are listed on the attached Form PTO-1449. It is Applicants' understanding that, under the procedures of the PCT, copies of the cited publications will have been supplied to the U.S. Patent Office by the International Bureau. However, the Examiner is invited to contact the undersigned attorney if additional copies are necessary or would facilitate examination of the present application.

Otherwise, the Examiner is respectfully requested to return an initialed and dated copy of the attached Form PTO-1449 to confirm that all publications listed thereon have been considered and made officially of record in the file of this application.

Applicants understand that, under the procedures of the PCT, a copy of the priority documents (KR 10-2002-0023904, filed May 1, 2002 and KR 10-2003-0027391, filed April 30, 2003) will have been supplied to the U.S. Patent Office pursuant to Rule 17 of the PCT Regulations. It is therefore respectfully requested that the first Official Action in the present application contain an indication that the appropriate priority document is in the file of this application.

U.S. National Phase of PCT/KR03/00879  
Preliminary Amendment dated: November 1, 2004

In view of the above amendments, an early action on the application is now in order and is most respectfully requested.

Respectfully submitted,  
BACON & THOMAS, PLLC

By Richard E. Fichter  
Richard E. Fichter  
Registration No. 26,382

625 Slaters Lane - 4th Floor  
Alexandria, Virginia 22314  
Phone: (703) 683-0500  
Facsimile: (703) 683-1080

REF:kdd  
PA01.wpd

DATE: November 1, 2004

## **ABSTRACT OF THE DISCLOSURE**

An apparatus for efficiently deodorizing or sterilizing a target space contaminated with virus, bacteria, fungi and the like by using ozone without adversely affecting a human body is described. The apparatus is an air sterilizer using ozone, which includes a control unit for automatically controlling a proper concentration of ozone for efficiently sterilizing the target space according to the size of the target space. The air sterilizer comprises an ozone generating unit subjected to ON/OFF control, a control unit for controlling a variety of safety devices having functions of efficiently controlling the concentration of ozone in the target space, a functional air filter for cleaning air and removing residual ozone, and a fan for circulating the air in the target space. Virus, bacteria and fungi floating in the air can be more efficiently removed over conventional air cleaner and a malodor source can also be eliminated.